Planta

An International Journal of Plant Biology

CONTENTS OF VOLUME 209 · 1999

Honorary Editor:

Hans Mohr, *Freiburg, Germany*

Managing Editors:

Russell L. Jones, *Berkeley Calif., USA*
Andreas Sievers, *Bonn, Germany*
Malcolm B. Wilkins, *Glasgow, UK*

Reviews Editor:

Elmar W. Weiler, *Bochum, Germany*

Editors:

Nikolaus Amrhein, *Zurich, Switzerland*
Tobias J. Baskin, *Columbia, USA*
J. Derek Bewley, *Guelph, Ontario, Canada*
Thomas J. Buckhout, *Berlin, Germany*
Nicholas C. Carpita, *West Lafayette, Ind., USA*
Maarten J. Chrispeels, *La Jolla, Calif., USA*
Richard J. Cogdell, *Glasgow, UK*
Daniel J. Cosgrove, *University Park, Pa., USA*
Jürgen Ebel, *München, Germany*
Geoffrey B. Fincher, *Glen Osmond, Australia*
Christine Foyer, *Aberystwyth, UK*
Hiroo Fukuda, *Tokyo, Japan*
Dietrich Gradmann, *Göttingen, Germany*
Wolfgang Haupt, *Erlangen, Germany*
Peter K. Hepler, *Amherst, Mass., USA*
Eliot Herman, *Beltsville, Md., USA*
Reinhold Herrmann, *München, Germany*
Werner Kaiser, *Würzburg, Germany*
Leon V. Kochian, *Ithaca, N.Y., USA*
Chris Kuhlemeier, *Bern, Switzerland*
Andre Lauchli, *Davis, USA*
Richard C. Leegood, *Sheffield, UK*
John R. Lenton, *Bristol, UK*
William J. Lucas, *Davis, Calif., USA*
Yoshio Masuda, *Osaka, Japan*
Anastasios Melis, *Berkeley, Calif., USA*
Diedrik Menzel, *Bonn, Germany*
Kenzo Nakamura, *Nagoya, Japan*
Richard M. Napier, *Wellesbourne, UK*
Gunther Neuhaus, *Freiburg, Germany*
Lutz Nover, *Frankfurt/Main, Germany*
Gunnar Öquist, *Umeå, Sweden*
C. Barry Osmond, *Canberra, Australia*
Montserrat Pages, *Barcelona, Spain*
Benno Parthier, *Halle/Saale, Germany*
Lee H. Pratt, *Athens, Ga., USA*
Raoul Ranjeva, *Toulouse, France*
Keith Roberts, *Norwich, UK*
Pamela Ronald *Davies, USA*
Dale Sanders, *York, UK*
Dirk Scheel, *Halle, Germany*
Günther F.E. Scherer, *Hannover, Germany*
Eberhard Schnepf, *Heidelberg, Germany*
Julian I. Schroeder, *San Diego, Calif., USA*
Wendy K. Silk, *Davis, Calif., USA*
J. Andrew C. Smith, *Oxford, UK*
Ernst Steudle, *Bayreuth, Germany*
Mark Stitt, *Heidelberg, Germany*
Dieter Strack, *Halle, Germany*
Alessandro Vitale, *Milan, Italy*
Peter Westhoff, *Düsseldorf, Germany*
Richard Williamson, *Canberra, Australia*
Lothar Willmitzer, *Golm, Germany*
Klaus Winter, *Balboa, Republic of Panama*
Ulrich Wobus, *Gatersleben, Germany*
Jan A.D. Zeevaart, *East Lansing, Mich., USA*

Assistants to the Managing Editors:

Brigitte Buchen, *Bonn, Germany*
Sandra K. Hillman, *Glasgow, UK*
Frances Jones, *Berkeley, Calif., USA*

Springer

Planta

An International Journal of Plant Biology

Founded in 1925. Volumes 1–34 (1945) edited by *W. Ruhland* and *H. Winkler*. (Volumes 1–21, 1934 published as Zeitschrift für wissenschaftliche Biologie, Abteilung E.) Volumes 35–47 edited by *W. Ruhland* and *O. Renner*. Volumes 48–51 edited by *W. Ruhland*, *L. Brauner* and *E. Bünning*. Volumes 52–68 edited by *L. Brauner* and *E. Bünning*. Volumes 69–95 edited by *E. Bünning*, *H. Grisebach*, *A. Lang*, *H. Mohr*, and *H. Ziegler*. Volumes 96–141 edited by *E. Bünning* and *A. Lang*. Volumes 142–155 edited by *A. Lang*, *H. Mohr* and *M.B. Wilkins*. Volumes 156–185 edited by *A. Lang*, *A. Sievers*, and *M.B. Wilkins*. From Volume 186, edited by *R.L. Jones*, *A. Sievers*, and *M.B. Wilkins*.

Copyright

Submission of a manuscript implies: that the work described has not been published before (except in the form of an abstract or as part of a published lecture, review, or thesis); that it is not under consideration for publication elsewhere; that its publication has been approved by all the coauthors, if any, as well as by the responsible authorities at the institute where the work has been carried out; that, if and when the manuscript is accepted for publication, the authors agree to automatic transfer of the copyright to the publisher; and that the manuscript will not be published elsewhere in any language without the consent of the copyright holders.

All articles published in this journal are protected by copyright, which covers the exclusive rights to reproduce and distribute the article (e.g., as offprints), all translation rights as well as the rights to publish the article in any electronic form. No material published in this journal may be reproduced photographically or stored on microfilm, in electronic data bases, video disks, etc., without first obtaining written permission from the publisher.

The use of general descriptive names, trade names, trademarks, etc., in this publication, even if not specifically identified, does not imply that these names are not protected by the relevant laws and regulations.

While the advice and information in this journal is believed to be true and accurate at the date of its going to press, neither the authors nor the editors and the publisher can accept any legal responsibility for any errors or omissions that may be made. The publisher makes no warranty, expressed or implied, with respect to the material contained herein.

Special regulations for photocopies in the USA

Photocopies may be made for personal or in-house use beyond the limitations stipulated under section 107 or 108 of U.S. Copyright Law, provided a fee is paid. All fees should be paid to the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, USA, stating the ISSN 0032-0935, the volume, and the first and last page numbers of each article copied. The copyright owner's consent does not include copying for general distribution, promotion, new works, or resale. In these cases, specific written permission must first be obtained from the publisher.

The Canada Institute for Scientific and Technical Information (CISTI) provides a comprehensive, world-wide document delivery service for all Springer-Verlag journals. For more information, or to place an order for a copyright-cleared Springer-Verlag document, please contact Client Assistant, Document Delivery, Canada Institute for Scientific and Technical Information, Ottawa K1A 0S2, Canada; Tel.: +1-613-993-9251; Fax: +1-613-952-8243; E-mail: cisti.docdel@nrc.ca

Springer-Verlag Berlin Heidelberg
New York London Paris Tokyo Hong Kong
Barcelona Budapest

Printers

Stürtz AG,
Würzburg, Germany
© Springer-Verlag, Berlin Heidelberg 1999
Springer-Verlag GmbH & Co. KG, Berlin, Germany

Printed in Germany

Springer

Contents of Volume 209 · 1999

Abd-El Baki GK → Man H-M
Adams III WW → Logan BA
Agosti RD → Jouve L
Aita S → Miyagishima S
Ameziane R → Limami A
Angosto T → Gómez P
Arrigoni O → De Tullio MC
Avsian-Kretchmer O, Eshdat Y, Gueta-Dahan Y, Ben-Hayyim G: Regulation of stress-induced phospholipid hydroperoxide glutathione peroxidase expression in citrus 469

Baldwin IT → Preston CA
Balk PA, de Boer AD: Rapid stalk elongation in tulip (*Tulipa gesneriana* L. cv. Apeldoorn) and the combined action of cold-induced invertase and the water-channel protein γTIP 346
Baluška F → Braun M
Barrieu F, Marty-Mazars D, Thomas D, Chaumont F, Charbonnier M, Marty F: Desiccation and osmotic stress increase the abundance of mRNA of the tonoplast aquaporin BobTIP26-1 in cauliflower cells 77
Bartels D → Kleines M
Ben-Hayyim G → Avsian-Kretchmer O
Benoit V → Lemaire SD
Bernardini P → Masojídek J
Bezhani S → Menhaj AR
Birks K → Ott T
Blervacq A-S → Kleines M
Braun H-P, Schmitz UK: The protein-import apparatus of plant mitochondria 267
Braun M, Baluška F, von Witsch M, Menzel D: Redistribution of actin, profilin and phosphatidylinositol-4,5-bisphosphate in growing and maturing root hairs 435
Braun M, Richter P: Relocalization of the calcium gradient and a dihydropyridine receptor is involved in upward bending by bulging of *Chara* protonemata, but not in downward bending by bowing of *Chara* rhizoids 414
Broyles D → Houmiel KL
Buléon A → Lloyd JR

Camacho-Cristóbal JJ, González-Fontes A: Boron deficiency causes a drastic decrease in nitrate content and nitrate reductase activity, and increases the content of carbohydrates in leaves from tobacco plants 528
Capel J → Gómez P
Casagrande L → Houmiel KL
Charbonnier M → Barrieu F
Chaumont F → Barrieu F
Chaumont-Bonnet M → Limami A
Chee N → de Souza MP
Chen S-CG → To K-Y
Chino M → Kim H
Chou H-M → Lin R-F
Christou P → Tang K
Clarke BR, Denyer K, Jenner CF, Smith AM: The relationship between the rate of starch synthesis, the adenosine 5′-diphosphoglucose concentration and the amylose content of starch in developing pea embryos 324
Clarke J → Ott T
Colburn S → Houmiel KL
Cove D → Esch H

D'Emerico S → De Tullio MC
Davies HV → Nyvall P
Davies HV → Pedros AR
Day DA → Fedorova E
de Boer AD → Balk PA
De Gara L → De Tullio MC
De Nisi P, Dell'Orto M, Pirovano L, Zocchi G: Calcium-dependent phosphorylation regulates the plasma-membrane H^+-ATPase activity of maize (*Zea mays* L.) roots 187
de Souza MP, Huang CPA, Chee N, Terry N: Rhizosphere bacteria enhance the accumulation of selenium and mercury in wetland plants 259
De Tullio MC, Paciolla C, Vecchia FD, Rascio N, D'Emerico S, De Gara L, Liso R, Arrigoni O: Changes in onion root development induced by the inhibition of peptidyl-prolyl hydroxylase and influence of the ascorbate system on cell division and elongation 424
Deittert M → Gerhardt B
del Río LA → Distefano S
Deleens E → Limami A
Dell'Orto M → De Nisi P
Demmig-Adams B → Logan BA
Denyer K → Clarke BR
Distefano S, Palma JM, McCarthy I, del Río LA: Proteolytic cleavage of plant proteins by peroxisomal endoproteases from senescent pea leaves 308

Eckerskorn C → Finsterbusch A
Edelmann RE → Kiss JZ
Elster R-C → Kleines M
Enyedi AJ → Preston CA
Esch A → Kosegarten H
Esch H, Hartmann E, Cove D, Wada M, Lamparter T: Phytochrome-controlled phototropism of protonemata of the moss *Ceratodon purpureus*: physiology of the wild type and class 2 *ptr*−mutants 290
Eshdat Y → Avsian-Kretchmer O

Facchini PJ → Yu M
Fedorova E, Thomson R, Whitehead LF, Maudoux O, Udvardi MK, Day DA: Localization of H^+-ATPases in soybean root nodules 25
Feldman LJ → Moctezuma E
Felle HH, Kondorosi É, Kondorosi Á, Schultze M: Nod factors modulate the concentration of cytosolic free calcium differently in growing and non-growing root hairs of *Medicago sativa* L. 207
Finsterbusch A, Lindemann P, Grimm R, Eckerskorn C, Luckner M: Δ^5-3β-Hydroxysteroid dehydrogenase from *Digitalis lanata* Ehrh. – a multifunctional enzyme in steroid metabolism? 478
Fisahn J → Muschak M
Fischer K → Gerhardt B
Franceschi VR → Poovaiah BW
Fujiwara T → Kim H

Gális I, Šimek P, Macas J, Zahradníčková H, Vlasák J, Wabiko H, Van Dongen W, Van Onckelen HA, Ondřej M: The *Agrobacterium tumefaciens* C58-*6b* gene confers resistance to N^6-benzyladenine without modifying cytokinin metabolism in tobacco seedlings 453
Gaspar T → Jouve L
Gatehouse JA → Tang K
Geigenberger P → Loef I
Geigenberger P, Müller-Röber M, Stitt M: Contribution of adenosine 5′-diphosphoglucose pyrophosphorylase to the control of starch synthesis is decreased by water stress in growing potato tubers 338
Gendreau E, Orbovic V, Höfte H, Traas J: Gibberellin and ethylene control endoreduplication levels in the *Arabidopsis thaliana* hypocotyl 513
Gérard-Hirne C → Lemaire SD
Gerhardt B, Fischer K, Deittert M, Wenzel B: Substrate inhibition and affinities of the glyoxysomal β-oxidation of sunflower cotyledons 355
Glüsenkamp K-H → Kosegarten H
Gómez P, Jamilena M, Capel J, Zurita S, Angosto T, Lozano R: *Stamenless*, a tomato mutant with homeotic conversions in petals and stamens 172
González-Fontes A → Camacho-Cristóbal JJ
Gonzalez K → Houmiel KL
Goodwin PH → Jin S
Goormachtig S, Lievens S, Herman S, van Montagu M, Holsters M: Chalcone reductase-homologous transcripts accumulate during development of stem-borne nodules on the tropical legume *Sesbania rostrata* 45
Goubet F, Mohnen D: Subcellular localization and topology of homogalacturonan methyltransferase in suspension-cultured *Nicotiana tabacum* cells 112
Greppin H → Jouve L
Gresshoff PM → Limami A
Gresshoff PM → Richard-Molard C
Grimm R → Finsterbusch A
Grimmer C, Komor E: Assimilate export by leaves of *Ricinus communis* L. growing under normal and elevated carbon dioxide concentrations: the same rate during the day, a different rate at night 275
Grolig F → Kosegarten H
Gruys KJ → Houmiel KL
Gueta-Dahan Y → Avsian-Kretchmer O

Hartmann E → Esch H
Hayashi H → Kim H
Heber U → Oja V

Hedrich R → Hoth S
Herman S → Goormachtig S
Hill SA → Sweetlove LJ
Hirai MY → Kim H
Hirel B → Limami A
Höfte H → Gendreau E
Holsters M → Goormachtig S
Horton P → Walters RG
Hoth S, Hedrich R: Susceptibility of the guard-cell K^+-uptake channel KST1 to Zn^{2+} requires histidine residues in the S3-S4 linker and in the channel pore 543
Houmiel KL, Slater S, Broyles D, Casagrande L, Colburn S, Gonzalez K, Mitsky TA, Reiser SE, Shah D, Taylor NB, Tran M, Valentin HE, Gruys KJ: Poly(β-hydroxybutyrate) production in oilseed leukoplasts of *Brassica napus* 547
Huang CPA → de Souza MP
Huang T-C → Lin R-F

Ichikawa H → Shimomura S
Issakidis-Bourguet E → Lemaire SD
Itoh R → Miyagishima S

Jacquot J-P → Lemaire SD
Jakob B → Oja V
Jamilena M → Gómez P
Jenner CF → Clarke BR
Jiang Q → Limami A
Jin S, Xu R, Wei Y, Goodwin PH: Increased expression of a plant actin gene during a biotrophic interaction between round-leaved mallow, *Malva pusilla*, and *Colletotrichum gloeosporioides* f. sp. *malvae* 487
Johnson G → Ott T
Jouve L, Gaspar T, Kevers C, Greppin H, Agosti RD: Involvement of indole-3-acetic acid in the circadian growth of the first internode of *Arabidopsis* 136

Kaikuranta PLM → Rinne PLH
Kaiser WM → Man H-M
Kern VD, Sack FD: Irradiance-dependent regulation of gravitropism by red light in protonemata of the moss *Ceratodon purpureus* 299
Keryer E → Lemaire SD
Kevers C → Jouve L
Kim H, Hirai MY, Hayashi H, Chino M, Naito S, Fujiwara T: Role of *O*-acetyl-L-serine in the coordinated regulation of the expression of a soybean seed storage-protein gene by sulfur and nitrogen nutrition 282
Kiss JZ, Edelmann RE, Wood PC: Gravitropism of hypocotyls of wild-type and starch-deficient *Arabidopsis* seedlings in spaceflight studies 96
Kleines M, Elster R-C, Rodrigo M-J, Blervacq A-S, Salamini F, Bartels D: Isolation and expression analysis of two stress-responsive sucrose-synthase genes from the resurrection plant *Craterostigma plantagineum* (Hochst.) 13
Kloppstech K → Menhaj AR
Koblížek M → Masojídek J
Kohli A → Tang K
Komenda J → Masojídek J
Komor E → Grimmer C
Kondorosi Á → Felle HH
Kondorosi É → Felle HH
Kopecký J → Masojídek J
Kosegarten H, Grolig F, Esch A, Glüsenkamp K-H, Mengel K: Effects of NH_4^+, NO_3^- and HCO_3^- on apoplast pH in the outer cortex of root zones of maize, as measured by the fluorescence ratio of fluorescein boronic acid 444
Kossmann J → Lloyd JR
Kratz RF, Mandoli DF: The roles of light and the nucleus in the regulation of reproductive onset in *Acetabularia acetabulum* 503
Kunz C → Petruzzelli L
Kuroiwa H → Miyagishima S
Kuroiwa H → Nagata N
Kuroiwa T → Miyagishima S
Kuroiwa T → Nagata N

Lamparter T → Esch H
Lemaire SD, Stein M, Issakidis-Bourguet E, Keryer E, Benoit V, Pineau B, Gérard-Hirne C, Miginiac-Maslow M, Jacquot J-P: The complex regulation of ferredoxin/thioredoxin-related genes by light and the circadian clock 221
Leubner-Metzger G → Petruzzelli L
Lewandowski C → Preston CA
Lievens S → Goormachtig S
Limami A, Phillipson B, Ameziane R, Pernollet N, Jiang Q, Roy R, Deleens E, Chaumont-Bonnet M, Gresshoff PM, Hirel B: Does root glutamine synthetase control plant biomass production in *Lotus japonicus* L.? 495
Limami AM → Richard-Molard C
Lin R-F, Chou H-M, Huang T-C: Priority of light/dark entrainment over temperature in setting the circadian rhythms of the prokaryote *Synechococcus* RF-1 202
Lindemann P → Finsterbusch A
Liso R → De Tullio MC
Liu Z → Poovaiah BW
Lloyd JR, Springer F, Buléon A, Müller-Röber B, Willmitzer L, Kossmann J: The influence of alterations in ADP-glucose pyrophosphorylase activities on starch structure and composition in potato tubers 230
Loef I, Stitt M, Geigenberger P: Orotate leads to a specific increase in uridine nucleotide levels and a stimulation of sucrose degradation and starch synthesis in discs from growing potato tubers 314
Logan BA, Demmig-Adams B, Rosenstiel TN, Adams III WW: Effect of nitrogen limitation on foliar antioxidants in relationship to other metabolic characteristics 213
Lozano R → Gómez P
Lu X → Tang K
Luckner M → Finsterbusch A

Macas J → Gális I
MacLeod MR → Pedros AR
Man H-M, Abd-El Baki GK, Stegmann P, Weiner H, Kaiser WM: The activation state of nitrate reductase is not always correlated with total nitrate reductase activity in leaves 462
Mandoli DF → Kratz RF
Marty F → Barrieu F
Marty-Mazars D → Barrieu F
Masojídek J, Torzillo G, Koblížek M, Kopecký J, Bernardini P, Sacchi A, Komenda J: Photoadaptation of two members of the Chlorophyta (*Scenedesmus* and *Chlorella*) in laboratory and outdoor cultures: changes in chlorophyll fluorescence quenching and the xanthophyll cycle 126
Maudoux O → Fedorova E
McCarthy I → Distefano S
McRae D → Pedros AR
Meins Jr. F → Petruzzelli L
Mengel K → Kosegarten H
Menhaj AR, Mishra SK, Bezhani S, Kloppstech K: Posttranscriptional control in the expression of the genes coding for high-light-regulated HL#2 proteins 406
Menzel D → Braun M
Miginiac-Maslow M → Lemaire SD
Mishra SK → Menhaj AR
Mitsky TA → Houmiel KL
Miyagishima S, Itoh R, Aita S, Kuroiwa H, Kuroiwa T: Isolation of dividing chloroplasts with intact plastid-dividing rings from a synchronous culture of the unicellular red alga *Cyanidioschyzon merolae* 371
Moctezuma E, Feldman LJ: Auxin redistributes upwards in graviresponding gynophores of the peanut plant 180
Mohnen D → Goubet F
Morot-Gaudry J-F → Richard-Molard C
Müller-Röber B → Lloyd JR
Müller-Röber B → Sweetlove LJ
Müller-Röber M → Geigenberger P
Muschak M, Willmitzer L, Fisahn J: Gas-exchange analysis of chloroplastic fructose-1,6-bisphosphatase antisense potatoes at different air humidities and at elevated CO_2 104

Nagata N, Saito C, Sakai A, Kuroiwa H, Kuroiwa T: The selective increase or decrease of organellar DNA in generative cells just after pollen mitosis one controls cytoplasmic inheritance 53
Naito S → Kim H
Nyvall P, Pelloux J, Davies HV, Pedersén M, Viola R: Purification and characterisation of a novel starch synthase selective for uridine 5′-diphosphate glucose from the red alga *Gracilaria tenuistipitata* 143

Oja V, Savchenko G, Jakob B, Heber U: pH and buffer capacities of apoplastic and cytoplasmic cell compartments in leaves 239
Ondřej M → Gális I
Orbovic V → Gendreau E
Ott T, Clarke J, Birks K, Johnson G: Regulation of the photosynthetic electron transport chain 250

Paciolla C → De Tullio MC
Palma JM → Distefano S
Pedersén M → Nyvall P

Pedros AR, MacLeod MR, Ross HA, McRae D, Tiburcio AF, Davies HV, Taylor MA: Manipulation of *S*-adenosylmethionine decarboxylase activity in potato tubers. An increase in activity leads to an increase in tuber number and a change in tuber size distribution 153
Pelloux J → Nyvall P
Pernollet N → Limami A
Petruzzelli L, Kunz C, Waldvogel R, Meins Jr. F, Leubner-Metzger G: Distinct ethylene- and tissue-specific regulation of β-1,3-glucanases and chitinases during pea seed germination 195
Phillipson B → Limami A
Pineau B → Lemaire SD
Pirovano L → De Nisi P
Poovaiah BW, Xia M, Liu Z, Wang W, Yang T, Sathyanarayanan PV, Franceschi VR: Developmental regulation of the gene for chimeric calcium/calmodulin-dependent protein kinase in anthers 161
Preston CA, Lewandowski C, Enyedi AJ, Baldwin IT: Tobacco mosaic virus inoculation inhibits wound-induced jasmonic acid-mediated responses within but not between plants 87

Qi H → Tang K

Rascio N → De Tullio MC
Reiser SE → Houmiel KL
Rezmer C, Schlichting R, Wächter R, Ullrich CI: Identification and localization of transformed cells in *Agrobacterium tumefaciens*-induced plant tumors 399
Richard-Molard C, Wuillème S, Scheel C, Gresshoff PM, Morot-Gaudry J-F, Limami AM: Nitrogen-induced changes in morphological development and bacterial susceptibility of Belgian endive (*Cichorium intybus* L.) are genotype-dependent 389
Richter P → Braun M
Rinne PLH, Kaikuranta PLM, van der Plas LHW, van der Schoot C: Dehydrins in cold-acclimated apices of birch (*Betula pubescens* Ehrh.): production, localization and potential role in rescuing enzyme function during dehydration 377
Rodrigo M-J → Kleines M
Rogers JJM → Walters RG
Ronald PC → Tang K
Rosenstiel TN → Logan BA
Ross HA → Pedros AR
Roy R → Limami A
Rüdiger W → Scheumann V
Ruel K → Zeier J
Ryser U → Zeier J

Sacchi A → Masojídek J
Sack FD → Kern VD
Saito C → Nagata N
Sakai A → Nagata N
Salamini F → Kleines M
Sathyanarayanan PV → Poovaiah BW
Savchenko G → Oja V
Scheel C → Richard-Molard C
Scheumann V, Schoch S, Rüdiger W: Chlorophyll *b* reduction during senescence of barley seedlings 364
Schlichting R → Rezmer C
Schmitz UK → Braun H-P
Schoch S → Scheumann V
Schreiber L → Zeier J
Schultze M → Felle HH
Shah D → Houmiel KL
Shephard F → Walters RG
Shimmen T → Yokota E
Shimomura S, Watanabe S, Ichikawa H: Characterization of auxin-binding protein 1 from tobacco: content, localization and auxin-binding activity 118
Šimek P → Gális I
Slater S → Houmiel KL
Smith AM → Clarke BR
Springer F → Lloyd JR
Stegmann P → Man H-M
Stein M → Lemaire SD
Stitt M → Geigenberger P
Stitt M → Loef I
Suen D-F → To K-Y
Sun X → Tang K
Sweetlove LJ, Müller-Röber B, Willmitzer L, Hill SA: The contribution of adenosine 5′-diphosphoglucose pyrophosphorylase to the control of starch synthesis in potato tubers 330

Tang K, Tinjuangjunm P, Xu Y, Sun X, Gatehouse JA, Ronald PC, Qi H, Lu X, Christou P, Kohli A: Particle-bombardment-mediated co-transformation of elite Chinese rice cultivars with genes conferring resistance to bacterial blight and sap-sucking insect pests 376
Taylor MA → Pedros AR
Taylor NB → Houmiel KL
Terry N → Souza de MP
Thomas D → Barrieu F
Thomson R → Fedorova E
Tiburcio AF → Pedros AR
Tinjuangjunm P → Tang K
To K-Y, Suen D-F, Chen S-CG: Molecular characterization of ribulose-1,5-bisphosphate carboxylase/oxygenase activase in rice leaves 66
Torzillo G → Masojídek J
Traas J → Gendreau E
Tran M → Houmiel KL

Udvardi MK → Fedorova E
Ullrich CI → Rezmer C

Valentin HE → Houmiel KL
Van Dongen W → Gális I
van Montagu M → Goormachtig S
Van Onckelen HA → Gális I
van der Plas LHW → Rinne PLH
van der Schoot C → Rinne PLH
Vecchia FD → De Tullio MC
Viola R → Nyvall P
Vlasák J → Gális I
von Witsch M → Braun M

Wabiko H → Gális I
Wächter R → Rezmer C
Wada M → Esch H
Waldvogel R → Petruzzelli L
Walters RG, Rogers JJM, Shephard F, Horton P: Acclimation of *Arabidopsis thaliana* to the light environment: the role of photoreceptors 517
Wang W → Poovaiah BW
Watanabe S → Shimomura S
Wei Y → Jin S
Weiner H → Man H-M
Wenzel B → Gerhardt B
Whitehead LF → Fedorova E
Willmitzer L → Lloyd JR
Willmitzer L → Muschak M
Willmitzer L → Sweetlove LJ
Wood PC → Kiss JZ
Wuillème S → Richard-Molard C

Xia M → Poovaiah BW
Xu R → Jin S
Xu Y → Tang K

Yang T → Poovaiah BW
Yokota E, Shimmen T: The 135-kDa actin-bundling protein from lily pollen tubes arranges F-actin into bundles with uniform polarity 264
Yu M, Facchini PJ: Purification, characterization, and immunolocalization of hydroxycinnamoyl-CoA: tyramine *N*-(hydroxycinnamoyl) transferase from opium poppy 33

Zahradníčková H → Gális I
Zeier J, Ruel K, Ryser U, Schreiber L: Chemical analysis and immunolocalisation of lignin and suberin in endodermal and hypodermal/rhizodermal cell walls of developing maize (*Zea mays* L.) primary roots 1
Zeier J, Schreiber L: Fourier transform infrared-spectroscopic characterisation of isolated endodermal cell walls from plant roots: chemical nature in relation to anatomical development 537
Zocchi G → De Nisi P
Zurita S → Gómez P